

SEQUENCE LISTING

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<120> NOGO RECEPTOR ANTAGONISTS

<130> 2681.0430002

<140> 10/567,381

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<150> PCT/US04/02702

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<150> 60/402,866

<151> 2002-08-10

<160> 48

<170> PatentIn Ver. 3.2

<210> 1

<211> 16

<212> PRT

<213> Rattus sp.

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<210> 2

<211> 16

<212> PRT

<213> Homo sapiens

<400> 2

Leu	Asp	Leu	Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr
1				5					10					15	

<210> 3

<211> 35

<212> PRT

<213> Rattus sp.

<400> 3

Ala	Val	Ala	Ser	Gly	Pro	Phe	Arg	Pro	Phe	Gln	Thr	Asn	Gln	Leu	Thr
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Asp Glu Glu Leu Leu Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala
 20 25 30

Asp Lys Ala
 35

<210> 4
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 4
 Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp Thr Gly Arg Ala Thr
 1 5 10 15

Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala
 20 25 30

Asp Lys Ala
 35

<210> 5
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 <213> Mus musculus

<400> 5
 Cys Arg Leu Gly Gln Ala Gly Ser Gly Ala
 1 5 10

<210> 6
 <211> 344
 <212> PRT
 <213> Homo sapiens

<400> 6
 Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
 1 5 10 15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
 20 25 30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
 35 40 45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
 50 55 60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
 65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
 85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
 100 105 110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly

115					120					125					
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu
130						135					140				
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr
145					150					155					160
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp
				165					170					175	
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser
		180						185					190		
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
		195					200					205			
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp
	210					215					220				
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala
225					230					235					240
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg
				245					250					255	
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp
			260					265					270		
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser
	275						280					285			
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn
	290					295					300				
Asp	Leu	Gln	Gly	Cys	Ala	Val	Ala	Thr	Gly	Pro	Tyr	His	Pro	Ile	Trp
305					310					315					320
Thr	Gly	Arg	Ala	Thr	Asp	Glu	Glu	Pro	Leu	Gly	Leu	Pro	Lys	Cys	Cys
				325					330					335	
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala								
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<210> 7

<211> 310

<212> PRT

<213> Homo sapiens

<400> 7

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			20					25					30		

Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr	Ser	Cys	Pro	Gln	Gln	Gly	Leu
		35					40					45			

Gln	Ala	Val	Pro	Val	Gly	Ile	Pro	Ala	Ala	Ser	Gln	Arg	Ile	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50					55					60						
His	Gly	Asn	Arg	Ile	Ser	His	Val	Pro	Ala	Ala	Ser	Phe	Arg	Ala	Cys	
65					70					75					80	
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Val	Leu	Ala	Arg	Ile	
				85					90					95		
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala	Leu	Leu	Glu	Gln	Leu	Asp	Leu	
			100					105					110			
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr	Phe	His	Gly	
		115					120					125				
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu	
	130					135					140					
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr	
145					150					155					160	
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp	
				165					170					175		
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser	
		180						185					190			
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu	
		195					200					205				
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp	
	210					215					220					
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala	
225					230					235					240	
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg	
				245					250					255		
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp	
			260					265					270			
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser	
	275						280					285				
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn	
	290					295					300					
Asp	Leu	Gln	Gly	Cys	Ala											
305					310											

<210> 8
 <211> 344
 <212> PRT
 <213> Rattus sp.

<400> 8
 Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu
 1 5 10 15
 Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val

20					25					30					
Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr	Ser	Arg	Pro	Gln	Gln	Gly	Leu
		35					40					45			
Gln	Ala	Val	Pro	Ala	Gly	Ile	Pro	Ala	Ser	Ser	Gln	Arg	Ile	Phe	Leu
	50					55					60				
His	Gly	Asn	Arg	Ile	Ser	Tyr	Val	Pro	Ala	Ala	Ser	Phe	Gln	Ser	Cys
	65					70					75				80
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Ala	Leu	Ala	Gly	Ile
				85					90					95	
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Thr	Leu	Leu	Glu	Gln	Leu	Asp	Leu
			100					105					110		
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Val	Val	Asp	Pro	Thr	Thr	Phe	Arg	Gly
		115					120					125			
Leu	Gly	His	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu
	130					135					140				
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr
	145					150					155				160
Leu	Gln	Asp	Asn	Asn	Leu	Gln	Ala	Leu	Pro	Asp	Asn	Thr	Phe	Arg	Asp
			165						170					175	
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Pro	Ser
		180						185					190		
Val	Pro	Glu	His	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
		195					200					205			
Leu	His	Gln	Asn	His	Val	Ala	Arg	Val	His	Pro	His	Ala	Phe	Arg	Asp
	210					215					220				
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Met
	225					230					235				240
Leu	Pro	Ala	Glu	Val	Leu	Val	Pro	Leu	Arg	Ser	Leu	Gln	Tyr	Leu	Arg
			245						250					255	
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp
			260					265					270		
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Gly	Val	Pro	Ser	Asn
		275					280					285			
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Thr	Ser
	290					295					300				
Asp	Leu	Glu	Gly	Cys	Ala	Val	Ala	Ser	Gly	Pro	Phe	Arg	Pro	Phe	Gln
	305					310					315				320
Thr	Asn	Gln	Leu	Thr	Asp	Glu	Glu	Leu	Leu	Gly	Leu	Pro	Lys	Cys	Cys
			325						330					335	
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala								
			340												

<210> 9
 <211> 310
 <212> PRT
 <213> Rattus sp.

<400> 9
 Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu
 1 5 10 15
 Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val
 20 25 30
 Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu
 35 40 45
 Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu
 50 55 60
 His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys
 65 70 75 80
 Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile
 85 90 95
 Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu
 100 105 110
 Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly
 115 120 125
 Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
 130 135 140
 Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
 145 150 155 160
 Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp
 165 170 175
 Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser
 180 185 190
 Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
 195 200 205
 Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp
 210 215 220
 Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met
 225 230 235 240
 Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg
 245 250 255
 Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
 260 265 270
 Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn
 275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser
 290 295 300

Asp Leu Glu Gly Cys Ala
 305 310

<210> 10
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 linker

<400> 10
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 11
 <211> 19
 <212> PRT
 <213> Rattus sp.

<400> 11
 Arg Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu
 1 5 10 15

Tyr Leu Phe

<210> 12
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 12
 tgaggagacg gtgaccgtgg tcccttg gcc ccag 34

<210> 13
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 13
 ggggatatcc accatgaagt tgcctg ttag gctgttg 37

<210> 14
 <211> 40
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Degenerate primer

<400> 14

ggggatatcc accatgaggk cccwgtca gytyctkgga

40

<210> 15

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic light chain peptide sequence

<400> 15

Met	Lys	Leu	Pro	Val	Arg	Leu	Leu	Val	Leu	Met	Phe	Trp	Ile	Pro	Ala
1				5					10					15	

Ser	Ser	Ser	Asp	Val	Val	Met	Thr	Gln	Thr	Pro	Leu	Ser	Leu	Pro	Val
			20					25					30		

Ser	Leu	Gly	Asp	Gln	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu
		35					40					45			

Val	His	Ser	Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Leu	Gln	Lys	Pro
	50					55					60				

Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser
65					70					75					80

Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
				85					90					95	

Leu	Lys	Ile	Ser	Arg	Val	Asp	Ala	Glu	Asp	Leu	Gly	Val	Tyr	Phe	Cys
			100					105					110		

Ser	Gln	Ser	Thr	His	Val	Pro	Phe	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu
		115					120					125			

Glu	Ile	Lys	Arg	Ala	Asp	Ala	Ala	Pro	Thr	Val	Ser	Ile	Ser	His	His
	130					135					140				

<210> 16

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic light chain peptide sequence

<400> 16

Met	Lys	Leu	Pro	Val	Arg	Leu	Leu	Val	Leu	Met	Phe	Trp	Ile	Pro	Ala
1				5					10					15	

Ser Ser Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val
 20 25 30
 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu
 35 40 45
 Val His Ser Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Arg Pro
 50 55 60
 Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
 65 70 75 80
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 85 90 95
 Leu Lys Ile Ser Arg Val Asp Ala Glu Asp Leu Gly Val Tyr Phe Cys
 100 105 110
 Ser Gln Ser Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125
 Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Ser His His
 130 135 140

<210> 17
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 heavy chain peptide sequence

<400> 17
 Val Gln Leu Gln Glu Ser Gly Ala Glu Leu Val Met Pro Gly Ala Ser
 1 5 10 15
 Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Trp
 20 25 30
 Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
 35 40 45
 Ala Ile Asp Pro Ser Asp Ser Tyr Ser Ser Tyr Asn Gln Asn Phe Lys
 50 55 60
 Gly Lys Ala Thr Leu Thr Val Asp Gly Ser Ser Ser Thr Ala Tyr Met
 65 70 75 80
 Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Arg Ile Thr Glu Ala Gly Ala Trp Phe Ala Tyr Trp Gly Gln Gly
 100 105 110
 Thr Thr Val Thr
 115

<210> 18

<211> 114
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 heavy chain peptide sequence

 <220>
 <221> MOD_RES
 <222> (3)
 <223> Variable amino acid

 <400> 18
 Leu Gln Xaa Ser Gly Ala Glu Ile Val Met Pro Gly Thr Ala Val Thr
 1 5 10 15
 Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Phe Trp Met His
 20 25 30
 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala Ile
 35 40 45
 Asp Pro Ser Asp Ser Tyr Ser Arg Ile Asn Gln Lys Phe Lys Gly Lys
 50 55 60
 Ala Thr Leu Thr Val Asp Glu Ser Ser Ser Thr Ala Tyr Met Gln Leu
 65 70 75 80
 Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg
 85 90 95
 Ile Thr Glu Ala Gly Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Thr
 100 105 110

 Val Thr

<210> 19
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 heavy chain peptide sequence

<400> 19
 Gly Phe Ser Leu Ser Thr Ser Gly Gly Ser Val Gly
 1 5 10

<210> 20
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 heavy chain peptide sequence

<400> 20
Leu Ile Tyr Ser Asn Asp Thr Lys Tyr Tyr Ser Thr Ser Leu Lys Thr
1 5 10 15

<210> 21
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
heavy chain peptide sequence

<400> 21
Ser Arg Phe Trp Thr Gly Glu Tyr Asp Val
1 5 10

<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
light chain peptide sequence

<400> 22
Arg Ala Ser Gln Asn Ile Ala Ile Thr Leu Asn
1 5 10

<210> 23
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
light chain peptide sequence

<400> 23
Leu Ala Ser Ser Leu Gln Ser
1 5

<210> 24
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
light chain peptide sequence

<400> 24
Gln Gln Tyr Asp Asn Tyr Pro Leu
1 5

<210> 25
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Degenerate
primer

<400> 25
aggtsmarct gcagsagtcw gg

22

<210> 26
<211> 22
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 26
Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu Ser Asp
1 5 10 15
Asn Ala Gln Leu Arg
20

<210> 27
<211> 10
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 27
Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 28
<211> 6
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 28
Val Val Asp Pro Thr Thr
1 5

<210> 29
<211> 10

<212> PRT
 <213> Unknown Organism

 <220>
 <223> Description of Unknown Organism: Epitope
 recognized by the 7E11 monoclonal antibody

 <400> 29
 Leu Asp Leu Ser Asp Asp Ala Glu Leu Arg
 1 5 10

 <210> 30
 <211> 11
 <212> PRT
 <213> Unknown Organism

 <220>
 <223> Description of Unknown Organism: Epitope
 recognized by the 7E11 monoclonal antibody

 <400> 30
 Leu Asp Leu Ala Ser Asp Asn Ala Gln Leu Arg
 1 5 10

 <210> 31
 <211> 11
 <212> PRT
 <213> Unknown Organism

 <220>
 <223> Description of Unknown Organism: Epitope
 recognized by the 7E11 monoclonal antibody

 <400> 31
 Leu Asp Leu Ala Ser Asp Asp Ala Glu Leu Arg
 1 5 10

 <210> 32
 <211> 11
 <212> PRT
 <213> Unknown Organism

 <220>
 <223> Description of Unknown Organism: Epitope
 recognized by the 7E11 monoclonal antibody

 <400> 32
 Leu Asp Ala Leu Ser Asp Asn Ala Gln Leu Arg
 1 5 10

 <210> 33
 <211> 11
 <212> PRT
 <213> Unknown Organism

 <220>
 <223> Description of Unknown Organism: Epitope

recognized by the 7E11 monoclonal antibody

<400> 33

Leu Asp Ala Leu Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 34

<211> 11

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 34

Leu Asp Leu Ser Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 35

<211> 11

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 35

Leu Asp Leu Ser Ser Asp Glu Ala Glu Leu Arg
1 5 10

<210> 36

<211> 12

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 36

Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10

<210> 37

<211> 6

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 37

Asp Asn Ala Gln Leu Arg
1 5

<210> 38
<211> 10
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 38
Leu Asp Leu Ser Asp Asn Ala Gln Leu His
1 5 10

<210> 39
<211> 10
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 39
Leu Asp Leu Gly Asp Asn Arg His Leu Arg
1 5 10

<210> 40
<211> 10
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 40
Leu Asp Leu Gly Asp Asn Arg Gln Leu Arg
1 5 10

<210> 41
<211> 16
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 41
Ala Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 42
<211> 16
<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 42

Leu	Ala	Leu	Ser	Asp	Asn	Ala	Gln	Leu	Arg	Val	Val	Asp	Pro	Thr	Thr
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<210> 43

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<213> Unknown Organism

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<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 43

Leu	Asp	Leu	Ser	Asp	Asn	Ala	Ala	Leu	Arg	Val	Val	Asp	Pro	Thr	Thr
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<210> 44

<211> 16

<212> PRT

<213> Unknown Organism

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<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 44

Leu	Asp	Leu	Ser	Asp	Asn	Ala	Gln	Leu	His	Val	Val	Asp	Pro	Thr	Thr
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<210> 45

<211> 16

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<213> Unknown Organism

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recognized by the 7E11 monoclonal antibody

<400> 45

Leu	Asp	Leu	Ser	Asp	Asn	Ala	Gln	Leu	Ala	Val	Val	Asp	Pro	Thr	Thr
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<210> 46

<211> 16

<212> PRT

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recognized by the 7E11 monoclonal antibody

<400> 46
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1 5 10 15

<210> 47
<211> 16
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 47
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1 5 10 15

<210> 48
<211> 19
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Epitope
recognized by the 7E11 monoclonal antibody

<400> 48
His Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu
1 5 10 15

Tyr Leu Phe